



PATENT
Customer No. 22,852
Attorney Docket No. 9140.0014-00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
DEMARAY, Richard E. et al.) Group Art Unit: 1731
)
Application No.: 09/903,081) Examiner: HOFFMAN, John M.
)
Filed: July 10, 2001) Confirmation No.: 1225
)
For: AS-DEPOSITED PLANAR OPTICAL)
WAVEGUIDES WITH LOW)
SCATTERING LOSS AND)
METHODS FOR THEIR)
MANUFACTURE)

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), the Commissioner is hereby authorized to charge the fee of \$180.00 as specified by Section 1.17(p) to Deposit Account No. 06-0916.

Copies of the listed foreign and non-patent literature documents are attached. Copies of the U.S. patents and patent publications are not enclosed.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

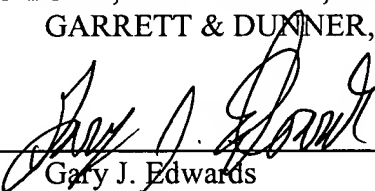
If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: February 27, 2006

By: _____


Gary J. Edwards
Reg. No. 41,008

EXPRESS MAIL LABEL NO. EV 746094856 US

IDS Form PTO/SB/08: Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			<i>Application Number</i>	09/903,081	
			<i>Filing Date</i>	July 10, 2001	
			<i>First Named Inventor</i>	DEMARAY, Richard E.	
			<i>Art Unit</i>	1731	
			<i>Examiner Name</i>	HOFFMAN, John M.	
<i>Attorney Docket Number</i>	9140.0014-00				
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U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials [*]	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-3,309,302	03-14-1967	Heil	
		US-5,338,625	08-16-1994	Bates et al.	
		US-5,561,004	10-01-1996	Bates et al.	
		US-5,930,046	07-27-1999	Solberg et al.	
		US-6,242,129 B1	06-05-2001	Johnson	
		US-6,280,875 B1	08-28-2001	Kwak et al.	
		US-6,376,027 B1	04-23-2002	Lee et al.	
		US-6,632,563 B1	10-14-2003	Krasnov et al.	
		US-6,683,244 B2	01-27-2004	Fujimori et al.	
		US 2002/0001746 A1	01-03-2002	Jenson	
		US 2002/0076133 A1	06-20-2002	Li et al.	
		US 2002/0140103 A1	10-03-2002	Kloster et al.	
		US 2003/0178637 A1	09-25-2003	Chen et al.	

Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.

FOREIGN PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 2004/106581 A2	12-09-2004	Symmorphix, Inc.		
		WO 2004/106582 A2	12-09-2004	Symmorphix, Inc.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ⁶
		KIM, H-K. and YOON, Y., "Characteristics of rapid-thermal-annealed LiCoO ₂ cathode film for an all-solid-state thin film microbattery," <i>J. Vac. Sci. Technol. A</i> 22(4):1182-1187 (2004).	
		Response to Office Action filed on October 17, 2005 in U.S. Application No. 10/291,179 (Attorney Docket No. 09140.0001-00).	

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		<i>Art Unit</i>	1731
		<i>Examiner Name</i>	HOFFMAN, John M.
		<i>Attorney Docket Number</i>	9140.0014-00
Sheet	2	of	3

NON PATENT LITERATURE DOCUMENTS

	Final Office Action issued on December 14, 2005 in U.S. Application No. 10/291,179 (Attorney Docket No. 09140.0001-00).	
	PCT Invitation to Pay Additional Fees for PCT/US01/22750, dated March 13, 2002 (Attorney Docket No. 09140.0002-00304).	
	PCT International Search Report for PCT/US01/22750, dated July 19, 2002 (Attorney Docket No. 09140.0002-00304).	
	PCT Written Opinion for PCT/US01/22750, dated July 23, 2002 (Attorney Docket No. 09140.0002-00304).	
	PCT International Preliminary Examination Report for PCT/US01/22750, dated October 8, 2002 (Attorney Docket No. 09140.0002-00304).	
	Office Action issued September 21, 2005 in U.S. Application No. 11/100,856 (Attorney Docket No. 09140.0015-01).	
	Response to Office Action filed December 5, 2005, in U.S. Application No. 10/101,863 (Attorney Docket No. 09140.0016-00).	
	Final Office Action issued on February 14, 2006, in U.S. Application No. 10/101,863 (Attorney Docket No. 09140.0016-00).	
	Response to Office Action filed February 24, 2006, in U.S. Application No. 10/101,863 (Attorney Docket No. 09140.0016-00).	
	Response to Office Action filed on July 25, 2005 in Application No. 10/954,182 (Attorney Docket No. 09140.0016-01).	
	Office Action issued on October 25, 2005, in U.S. Appl. No. 10/954,182 (Attorney Docket No. 09140-0016-01000).	
	Response to Office Action filed on December 21, 2005 in Application No. 10/954,182 (Attorney Docket No. 09140.0016-01).	
	Response to Office Action filed on November 8, 2005, in U.S. Application No. 10/101,341 (Attorney Docket No. 09140-0017-00).	
	Office Action issued on February 13, 2006, in U.S. Application No. 10/101,341 (Attorney Docket No. 09140-0017-00).	
	Office Action issued on October 3, 2005 in U.S. Application No. 10/650,461 (Attorney Docket No. 09140-0025-00).	
	Response to Office Action filed on January 3, 2006 in U.S. Application No. 10/650,461 (Attorney Docket No. 09140-0025-00).	
	International Preliminary Examination Report mailed April 15, 2004 in PCT/US03/24809 (Attorney Docket No. 09140-0025-00304).	
	Office Action issued on December 2, 2005 in U.S. Application No. 10/789,953 (Attorney Docket No. 09140.0030-00).	

Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

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of

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Complete if Known

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First Named Inventor	DEMARAY, Richard E.
Art Unit	1731
Examiner Name	HOFFMAN, John M.
Attorney Docket Number	9140.0014-00

NON PATENT LITERATURE DOCUMENTS

	Specification and Preliminary Amendment as filed for U.S. Appl. No. 11/297,057 (Attorney Docket No. 09140.0030-01).	
	Office Action issued on March 24, 2005 in U.S. Application No. 10/851,542 (Attorney Docket No. 09140.0033-00).	
	Response to Office Action dated July 25, 2005 in U.S. Application No. 10/851,542 (Attorney Docket No. 09140-0033-00).	
	Office Action issued on October 19, 2005 in U.S. Application No. 10/851,542 (Attorney Docket No. 09140.0033-00).	
	Response to Office Action filed January 19, 2006 in U.S. Application No. 10/851,542 (Attorney Docket No. 09140.0033-00).	
	PCT International Search Report and Written Opinion for Application No. PCT/US2004/014524 dated March 2, 2005 (Attorney Docket No. 09140.0033-00304).	
	PCT International Preliminary Report on Patentability for Application No. PCT/US2004/014524, dated December 8, 2005 (Attorney Docket No. 09140.0033-00304).	
	PCT International Search Report for Application No. PCT/US2004/014523 dated January 17, 2005 (Attorney Docket No. 09140.0034-00304).	
	PCT Written Opinion for Application No. PCT/US2004/014523 dated January 17, 2005 (Attorney Docket No. 09140.0034-00304).	
	PCT International Preliminary Report on Patentability for Application No. PCT/US2004/014523, dated December 8, 2005 (Attorney Docket No. 09140.0034-00304).	
	Specification as filed for U.S. Appl. No. 11/297,057 (Attorney Docket No. 09140.0042-00).	

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SignatureDate
Considered

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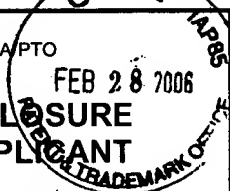
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		JP 07-233469 A	09-05-1995	Asahi Glass Co., Ltd.		Abstract

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ⁶
		DuPont Teijin Films, Mylar 200 SBL 300, Product Information, 4 pages (2000).	
		GOOSSENS, A. et al., "Sensitization of TiO ₂ with p-type semiconductor polymers," <i>Chem. Phys. Lett.</i> 287:148 (1998).	
		HAYAKAWA, T. et al., "Enhanced fluorescence from Eu ³⁺ owing to surface plasma oscillation of silver particles in glass," <i>J. Non-Crystalline Solids</i> 259:16-22 (1999).	
		JANSSEN, R. et al. "Photoinduced electron transfer from conjugated polymers onto nanocrystalline TiO ₂ ," <i>Synthet. Metal.</i> , 1 page (1999).	
		JONSSON L.B. et al. "Frequency response in pulsed DC reactive sputtering processes," <i>Thin Solid Films</i> 365:43-48 (2000).	
		KATO, K. and TOHMORI, Y., "PLC Hybrid Integration Technology and Its Application to Photonic Components," <i>IEEE J. Selected Topics in Quantum Electronics</i> 6(1):4-13 (2000).	
		KIM, J-Y. et al. "Frequency-dependent pulsed direct current magnetron sputtering of titanium oxide films," <i>J. Vac. Sci. Technol. A</i> 19(2):429-434 (2001).	
		KIM, D-W. et al. "Mixture Behavior and Microwave Dielectric Properties in the Low-fired TiO ₂ -CuO System," <i>Jpn. J. Appl. Phys.</i> 39:2696-2700 (2000).	

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NON PATENT LITERATURE DOCUMENTS			
		LADOUCEUR, F. and LOVE, J.D., in: <u>Silica-based Buried Channel Waveguides and Devices</u> , Chapman & Hall, London, pp. 98-99 (1996).	
		LAMB, W.B., "Designing Nonfoil Containing Skins for VIP Applications," DuPont VIA Symposium Presentation, 35 pages (1999).	
		PADMINI, P. et al. "Realization of High Tunability Barium Strontium Titanate Thin Films by rf Magnetron Sputtering," <i>Appl. Phys. Lett.</i> 75(20):3186-3188 (1999).	
		SUGIYAMA, A. et al., "Gas Permeation Through the Pinholes of Plastic Film Laminated with Aluminium Foil," <i>Vuoto XXVIII</i> (1-2):51-54 (1999).	
		TREICHEL, O. and KIRCHHOFF, V., "The influence of pulsed magnetron sputtering on topography and crystallinity of TiO ₂ films on glass," <i>Surface and Coatings Technology</i> 123:268-272 (2000).	
		VON ROTTKAY, K. et al., "Influence of stoichiometry on electrochromic cerium-titanium oxide compounds," Presented at the 11th Int'l. Conference of Solid State Ionics, Honolulu, Hawaii, November 19, 1997, Published in <i>Solid State Ionics</i> 113-115:425-430. (1998).	

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